

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
14 April 2005 (14.04.2005)

PCT

(10) International Publication Number
WO 2005/032977 A1

(51) International Patent Classification⁷: **B65F 1/16**

(21) International Application Number:
PCT/AU2004/001360

(22) International Filing Date: 6 October 2004 (06.10.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2003905472 7 October 2003 (07.10.2003) AU

(71) Applicant and

(72) Inventor: **HARKINS, Peter, William** [AU/AU]; Hardware Solutions, Tobruk Homestead, RMB 116, Old Northern Road, Maroota, New South Wales, 2756 (AU).

(74) Agents: **SMEETON, Anthony, Richard et al.**; DAVIES COLLISON CAVE, Level 10, 10 Barrack Street, Sydney, New South Wales 2000 (AU).

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

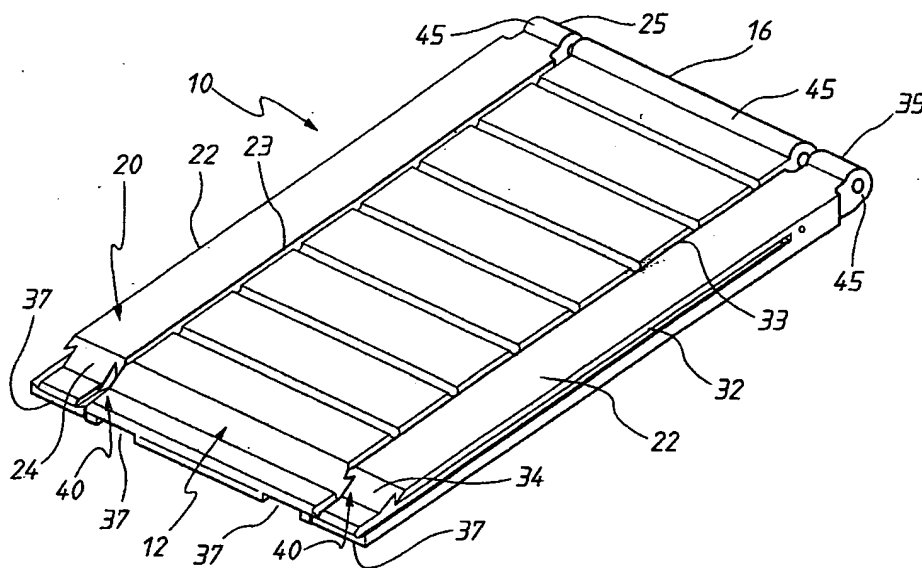
Published:

— with international search report

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **IMPROVED CLOSURE FOR REFUSE CONTAINER**



(57) Abstract: A hinged closure for a refuse container, the closure including a main panel portion (12) having opposed side edges (13,14) with dovetail like ribs or tongues (41), and the closure further including two side members (20, 30) each of which have grooves (42) adapted to be associated with a respective side edges of the main panel portion for a releasable connection. The main panel portion is connected to the side members by sliding the ribs in the grooves until pivot mounting hole portions of the both the panel portion and side members are aligned to form a pin mounting sleeve (45). The side members provide increased rigidity and reinforcement to the pivotally mounted closure.

WO 2005/032977 A1